Section

L

Electric Lamps
and
Illuminated Signs

WESTERN RAILROAD SUPPLY COMPANY

MANUFACTURERS

General Offices and Factory
2360 South Ashland Avenue
CHICAGO -:- ILLINOIS

•

District Offices in

New York, N. Y.
Denver, Colo.
St. Louis, Mo.
Cleveland, Ohio
Houston, Texas

Printed in U.S.A.

1937

Section L

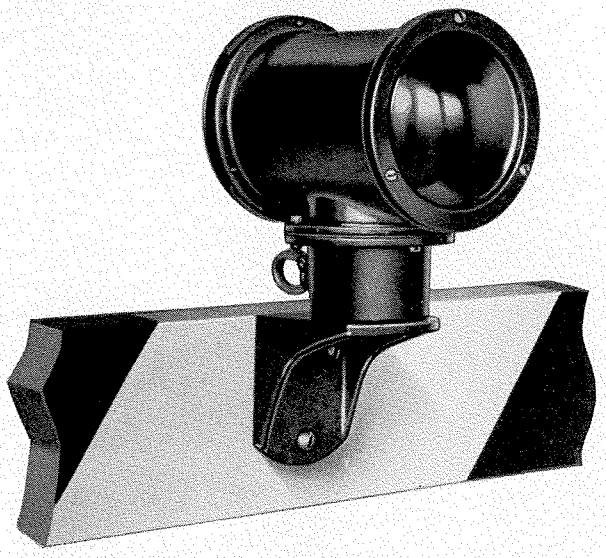
CONTENTS

Gate Lamps L5-L20
Circuit Controllers for Gate Lights and Gate Arms.... L30
Marker or Pilot Lights..... L40-L45
Illuminated Signs L50-L65
Electric Switch and Semaphore Lamps..... L70-L100
Electric Lamp Adaptors..... L105-L115
Switch and Semaphore Lighting Outfits..... L120
Floodlighting L130
Traffic Signals L150

WESTERN RAILROAD SUPPLY COMPANY

Type 1553 Gate Lamp

TWO-WAY INDICATION



The **Type 1553 Gate Lamp** projects a very brilliant beam in both directions along the highway from a single lamp bulb. The filament of the lamp bulb is in exact focus with both of the optical lenses. Excellent day indication is obtained with but a 10 watt lamp.

SPECIFICATIONS

Weight: Two and one-half pounds.
Lenses: 3½" diameter, 2¼" focus, red optical lenses.
Lamp socket: Single contact bayonet base. Lamp bulb not furnished unless specified.
Body: Cast aluminum throughout.

ORDERING REFERENCE

Specify Plate Number L5, Reference Number, and Description

Ref. No.	Description	Piece No.
1	Type 1553 Gate Lamp	1553
	Replacement Parts	
2	Mounting Bracket	1553-3
3	Lens ring	1553–5
4	Lens gasket	1553–6
5	Lamp socket complete with bushing and disc	1553–12
6	3½" diameter, 2¼" focus, red optical lens	
7	Squeeze connector	
8	Single contact bayonet base, S-11 bulb, lamp (Specify voltage and wattage)	

For reflector lens markers and signs for crossing gates see Catalog Section H.

WESTERN RAILROAD SUPPLY COMPANY

Type 1563 Gate Lamp

TWO WAY INDICATION

The **Type 1563 Gate Lamp** is similar to the Type 1553 shown on Plate L5 except that the main body of the lamp is constructed of aluminum tubing and the lamp bulb is assembled already focused and is not adjustable.

SPECIFICATIONS

Weight: One and three-quarter pounds.

Lenses: 3½" diameter, 2¼" focus, red optical lenses; or 3½" diameter, 30° spreadlite optical lenses as specified.

Lamp Socket: Single contact bayonet base. Lamp bulb not furnished unless specified.

Body: Aluminum construction throughout.

ORDERING REFERENCE

Specify Plate Number L6, Reference Number and Description

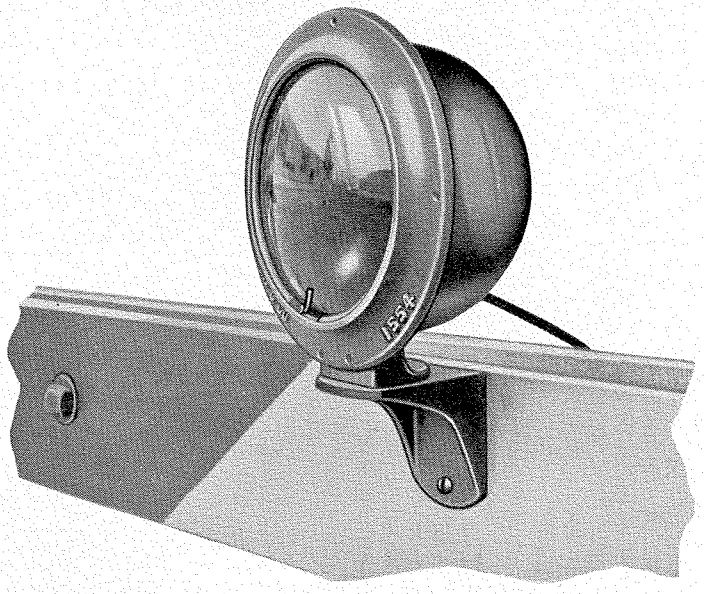
Ref. No.	Description	Piece No.
1	Type 1563 Gate Lamp complete, (furnished with 30° spreadlite lenses unless otherwise specified)	1563
2	3½" diameter 30° spreadlite red optical lens	5324
3	3½" diameter, 2¼" focus, red optical lens	5325
4	Lens gasket	1563-7
5	Lens retaining spring	1563-4

NOTE: For reflector lens markers and signs for crossing gates see Catalog Section "H".

WESTERN RAILROAD SUPPLY COMPANY

Type 1554 Gate Lamp

ONE WAY INDICATION—5¼" ROUNDEL



Type 1554 Gate Lamp is equipped with parabolic mejiradium reflector, single contact bayonet base lamp socket, and plain, red, convex roundel. It projects a very powerful light beam in one direction along the highway with low wattage lamp bulb. A spread roundel can be furnished if specified.

SPECIFICATIONS

Weight: Two and three-quarter pounds.
Roundel: 5¼" diameter, plain, convex, red roundel.
Lamp socket: Single contact bayonet base. Lamp bulb not furnished unless specified.
Reflector: Mejiradium.
Cover: Spun aluminum.
Roundel ring: Cast aluminum.

ORDERING REFERENCE

Specify Plate Number L10, Reference Number, and Description

Ref. No.	Description	Piece No.
1	Type 1554 Gate Lamp	1554
	Replacement Parts	
2	Reflector and clamp	1554–4
3	Lamp socket	1554–5
4	Lens gasket	1554–6
5	5¼" diameter plain, convex, red roundel	
6	Cover glass spring	1028–3
7	Squeeze connector	
8	Single contact bayonet base, S-11 bulb, lamp (Specify voltage and wattage)	

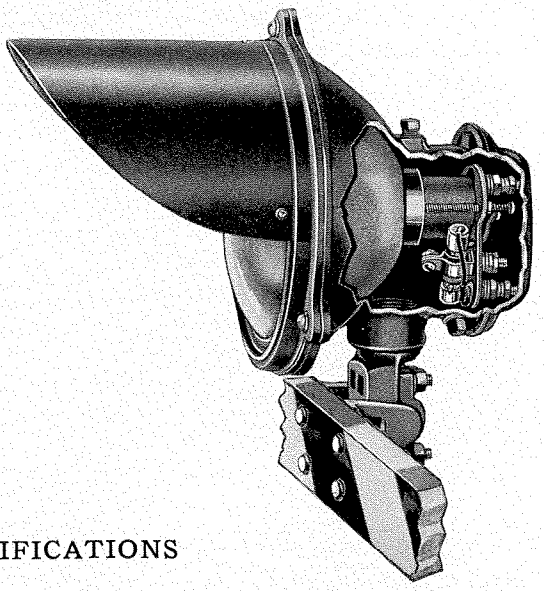
For reflector lens markers and signs for crossing gates see Catalog Section H.

WESTERN RAILROAD SUPPLY COMPANY

Type 1016 Gate Lamp

WITH OR WITHOUT SIDE LIGHTS
WITH OR WITHOUT CIRCUIT CONTROLLER

Type 1016 Gate Lamp can be furnished with or without side lights and with or without a self contained mercury contact circuit controller. The circuit controller can be adjusted to turn lights on or off with a 3° movement of the gate arm. The unit is made for easily adjusting the light beam, and refocusing after replacement of lamp bulb is made unnecessary by the use of a set screw on the socket assembly which insures proper seating of socket when replaced.



SPECIFICATIONS

Weight: Eight pounds.
Roundel: 8⅜" Red 30° Spreadlite. (Can be furnished with word STOP).
Lamp socket: For either single contact bayonet base lamps or medium screw base lamps as specified. Lamp bulbs not furnished unless specified.
Reflector: Mejiradium.
Circuit controller: Self-contained, mercury contact, adjustable.

ORDERING REFERENCE

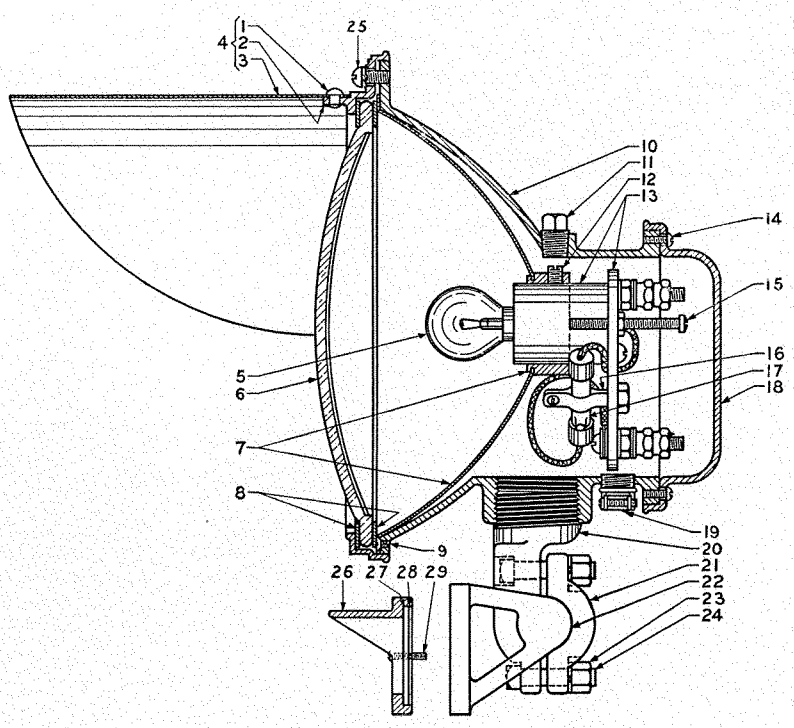
Specify Plate Number L15, Reference Number, and Description

Ref. No.	Description	Piece No.
1	Type 1016 Gate Lamp, with bayonet base lamp socket, without side lights, and without circuit controller	1016–51
2	Type 1016 Gate Lamp, with bayonet base lamp socket, without side lights, and with circuit controller	1016–52
3	Type 1016 Gate Lamp, with bayonet base lamp socket, with side lights, and without circuit controller	1016–53
4	Type 1016 Gate Lamp, with bayonet base lamp socket, with side lights, and with circuit controller	1016–54
5	Type 1016 Gate Lamp, with medium screw base lamp socket, without side lights, and without circuit controller	1016–59
6	Type 1016 Gate Lamp, with medium screw base lamp socket, without side lights, and with circuit controller	1016–60
7	Type 1016 Gate Lamp, with medium screw base lamp socket, with side lights, and without circuit controller	1016–61
8	Type 1016 Gate Lamp, with medium screw base lamp socket, with side lights, and with circuit controller	1016–62

For replacement parts see following page.
For reflector lens markers and signs for crossing gates see Catalog Section H.

Type 1016 Gate Lamp

REPLACEMENT PARTS



ORDERING REFERENCE

Specify Plate Number L16, Reference Number, and Description

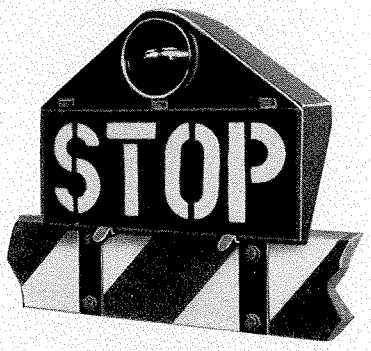
Ref. No.	Description	Piece No.	Ref. No.	Description	Piece No.
1	Copper Rivet		13a	Medium screw base lamp socket assembly	1016–104
2	Door	1016–3	14	Machine screw	
3	Hood	1016–23	15	Machine screw	
4	Assembly of hood and door	1016–102	16	Circuit controller clamp	1016–18
5	S. C. B. B. Lamp bulb (Specify voltage and wattage)		17	Mercury circuit controller tube	1016–16
5a	Medium screw base lamp bulb (Specify voltage and wattage)		18	Back cover	1016–4
6	Red 30° Spreadlite roundel	CL17	19	Squeeze connector	
7	Reflector for lamps without sidelights	1015–29	20	Mounting link	1016–21
7a	Reflector for lamps with sidelights	1015–29A	21	Clamp cap	1016–22
8	Roundel gasket	825	22	Mounting bracket	1016–20
9	Machine screw		23	Hex nut and lock washer	
10	Lamp case for lamps without sidelights	1016–1	24	Bolt	
10a	Lamp case for lamps with sidelights	1016–26	25	Machine screw	
11	Pipe plug		26	Sidelight hood	1016–27
12	Headless set screw		27	Sidelight glass disc	811
13	Bayonet base lamp socket assembly	1016–103	28	Sidelight gasket	818–48
			29	Machine screw	

For reflector lens markers and signs for crossing gates see Catalog Section H.

WESTERN RAILROAD SUPPLY COMPANY

Type 1834 Gate Lamp

RED OPTICAL LENS WITH ILLUMINATED "STOP" WITH OR WITHOUT CIRCUIT CONTROLLER



Type 1834 Gate Lamp includes both an illuminated "STOP" sign and a 4½" diameter red optical lens. A self-contained mercury contact circuit controller may be installed so that the lens and the word "STOP" are illuminated only when the gate arm is in the horizontal position or is moving in or out of that position.

SPECIFICATIONS

Weight: Six pounds.

Lens: 4½" diameter, optical red lens.

Wording: Illuminated cut-out letters, opalescent sand-blasted glass; 5" high, with 1" stroke.

Lamp socket: Medium screw base. Lamp bulb not furnished unless specified.

Case: Sheet aluminum.

Circuit controller: Self-contained, mercury contact, adjustable.

ORDERING REFERENCE

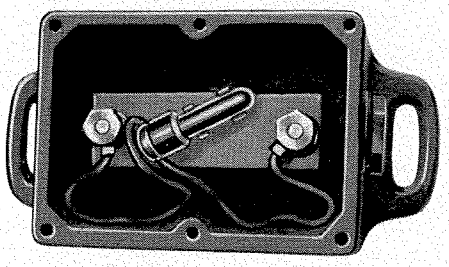
Specify Plate Number L20, Reference Number, and Description

Ref. No.	Description	Piece No.
1	Type 1834 Gate Lamp without circuit controller	1834
2	Type 1834 Gate Lamp with circuit controller	1834A
	Replacement Parts	
3	Medium screw base lamp socket	1834–8
4	Medium screw base lamp bulb (Specify voltage and wattage)	
5	Porcelain outlet bushing	
6	Mercury contact circuit controller tube complete with mounting clip	1016–29
7	4½" diameter red optical lens	
8	Lens retaining ring	1834–6
9	Sandblasted glass for cut-out letters	1834–3

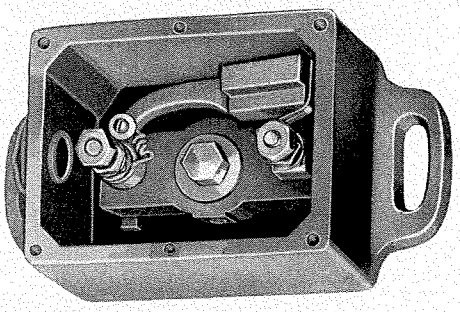
For reflector lens markers and signs for crossing gates see Catalog Section H.

Type 1005 Circuit Controllers

MERCURY CONTACT OR MECHANICAL CONTACT



Mercury Contact
Circuit Controller with cover removed



Mechanical Contact
Circuit Controller with cover removed

The **Mercury Circuit Controller** is in great favor where a gravity contact control is desired and the current broken is nominally small. It is easily adjustable to make lights go on or off with a 3° movement of the gate arm.

Where the Type 1016 and 1834 Gate Lamps are used singly on a gate arm the mercury contact can be installed within the lamp itself. Where two or more of these lamps are used it is more economical and efficient to use a single controller at the fulcrum of the arm.

The **Mechanical Circuit Controller** is designed to be mounted at the fulcrum of the gate arm. The movable element is so arranged that contact is made as the crossing gate moves toward the horizontal position. It operates on about a 20° movement.

ORDERING REFERENCE

Specify Plate Number L30, Reference Number, and Description

Ref. No.	Description	Piece No.
1	Type 1005 Mercury Contact Circuit Controller	1005
2	Type 1005 Mechanical Contact Circuit Controller	1005-52
	Replacement Parts	
3	Cover only	1005-13
4	Bakelite terminal block for Mercury Contact Controller	1005-60
4a	Bakelite terminal block for Mechanical Contact Controller	1005-61
5	Mercury circuit controller tube complete with mounting clip	1016-29
6	Contact lever complete for Mechanical Circuit Controller	1005-63
7	Silver contact only for contact lever for Mechanical Circuit Controller	1005-64
8	Stationary contact complete for Mechanical Circuit Controller	1005-65
9	Lead wire only for Mechanical Circuit Controller	1005-66

WESTERN RAILROAD SUPPLY COMPANY

Type 1553 Marker Light

Type 1553 Marker Light shows a powerful night indication in both directions along the highway even when equipped with only a 5 watt low voltage lamp bulb. It is furnished with a junction box for splicing socket lead wires and feed wires after installation on the mast.

SPECIFICATIONS

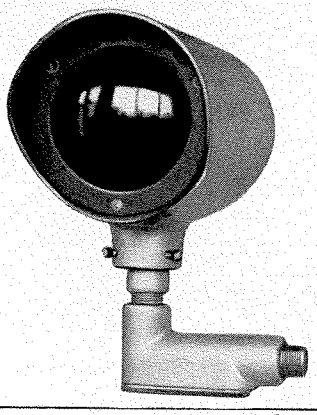
Lens: 3½" optical lens, 2½" focus; red or amber as specified.
Mounting: Unilet and pipe nipple with ⅜" pipe thread.
Adjustment: Adjustable in both horizontal and vertical planes.
Lamp socket: Single contact bayonet base. Lamp bulb not furnished unless specified.

ORDERING REFERENCE

Specify Plate Number L40, Reference Number, and Description

Ref. No.	Description	Piece No.
1	Type 1553 Marker Light with red lens	1553–20
2	Type 1553 Marker Light with amber lens	1553–20
	Replacement Parts	
3	3½" diameter, 2½" focus red optical lens	
4	3½" diameter, 2½" focus amber optical lens	
5	Lens ring	1553–5
6	Lens ring gasket	1553–6
7	Lamp socket complete with bushing and disc	1553–12
8	Unilet body only	
9	Unilet cover only	
10	Lock nut	
11	⅜" close nipple	
12	Single contact bayonet base, S-11 bulb, lamp (Specify voltage and wattage)	

For reflector lens markers see Catalog Section H.



Type 678 Marker Light

Type 678 Marker or Pilot Light shows light in both directions along the highway from one lamp bulb. It mounts in a hole in the mast tapped for ¾" standard pipe thread. A junction box provides for soldered and taped joints between socket leads and feed wires.

SPECIFICATIONS

Lens: 4½" spreadlite, red or amber as specified.

Lamp socket: Double or single contact bayonet base. Lamp bulb not furnished unless specified.

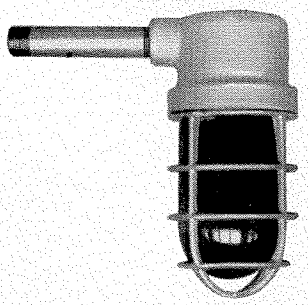
Mounting: Condulet and close nipple with ¾" pipe thread.

Adjustment: Adjustable in both horizontal and vertical planes.

ORDERING REFERENCE

Specify Plate Number L45, Reference Number, and Description

Ref. No.	Description	Piece No.
1	Type 678 Marker Light with red lens and single contact bayonet base lamp socket	Dwg. 678
2	Type 678 Marker Light with amber lens and single contact bayonet base lamp socket	Dwg. 678
3	Type 678 Marker Light with red lens and double contact bayonet base lamp socket	Dwg. 678A
4	Type 678 Marker Light with amber lens and double contact bayonet base lamp socket	Dwg. 678A
	Replacement Parts	
5	Red lens only	
6	Amber lens only	
7	Single contact bayonet base lamp only (Specify voltage and wattage)	
8	Double contact bayonet base lamp only (Specify voltage and wattage)	



Type 675 Marker Light

Type 675 Marker or Pilot Light is a vaporproof fitting suitable for use with medium screw base lamps. Wire leads fasten to socket by means of screws after the unit has been installed on the mast.

SPECIFICATIONS

Globe: Weatherproof, red or amber as specified.

Lamp socket: For medium screw base lamps. Lamp bulb not furnished unless specified. Lamp bulbs up to 100 watts can be used.

Mounting: 5" pipe nipple with ¾" pipe thread.

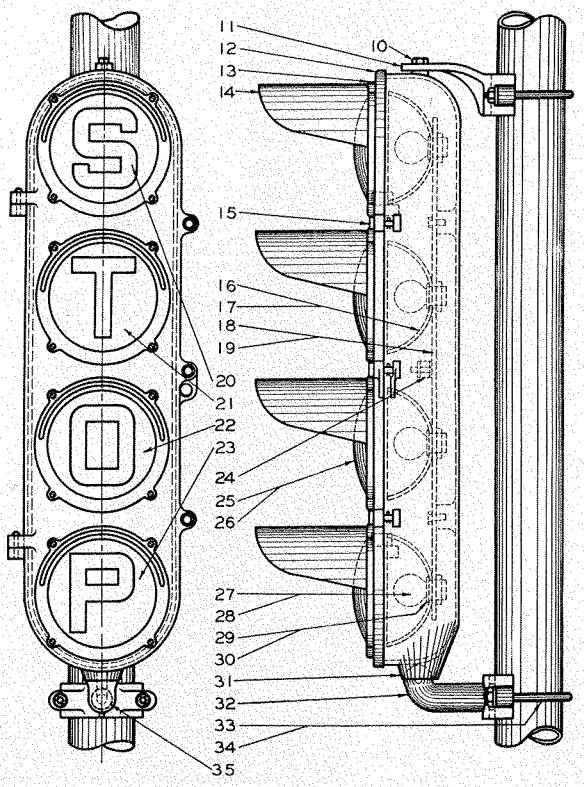
ORDERING REFERENCE

Specify Plate Number L45, Reference Number, and Description

Ref. No.	Description	Piece No.
10	Type 675 Marker Light with red globe	Dwg. 675
11	Type 675 Marker Light with amber globe	Dwg. 675
	Replacement Parts	
12	Wire guard only	
13	Medium screw base lamp bulb only (Specify voltage and wattage)	
14	Amber globe only	
15	Red globe only	

For reflector lens markers see Catalog Section H.

Illuminated STOP Units
Types 2800 and 2801



The **Type 2800 Illuminated STOP Unit** is equipped with bayonet base lamp sockets whereas the Type 2801 Unit is furnished for use with medium screw base lamps. Bayonet base lamp sockets are single contact.

The **Types 2800 and 2801 STOP Units** are single cast iron units containing four illuminated letters reading S, T, O, and P. Each letter is illuminated by an individual lamp and parabolic glass reflector. Sand-blasted glass or metal cutout letters as desired, can be furnished with either unit.

The door can be secured by an ordinary A.A.R. socket wrench but additional provision is made for locking by padlock.

Adaptors and U-Bolts are furnished for mounting on 3½″, 4″, or 5″ I.D. pipe post, as required.

For ordering reference see next page.

WESTERN RAILROAD SUPPLY COMPANY

Illuminated STOP Units

NOTE: Red plain convex roundel furnished unless otherwise specified.

ORDERING REFERENCE
Specify Plate Number L50, Reference Number and Description

Ref. No.	Description	Piece No.
1	Type 2800 STOP Unit with bayonet base lamps and with sand-blasted glass letters; for mounting on 4″ I.D. pipe post	2800–2
1a	Type 2800 STOP Unit with bayonet base lamps and with metal cutout letters; for mounting on 4″ I.D. pipe post	2800–5
2	Type 2801 STOP Unit with medium screw base lamps and with sand-blasted glass letters; for mounting on 4″ I.D. pipe post	2801–2
2a	Type 2801 STOP Unit with medium screw base lamps and with metal cutout letters; for mounting on 4″ I.D. pipe post	2801–5
3	Type 2800 STOP Unit with bayonet base lamps and with sand-blasted glass letters; for mounting on 5″ I.D. pipe post	2800–3
3a	Type 2800 STOP Unit with bayonet base lamps and with metal cutout letters; for mounting on 5″ I.D. pipe post	2800–6
4	Type 2801 STOP Unit with medium screw base lamps and with sand-blasted glass letters; for mounting on 5″ I.D. pipe post	2801–3
4a	Type 2801 STOP Unit with medium screw base lamps and with metal cut-out letters; for mounting on 5″ I.D. pipe post	2801–6
5	Type 2800 STOP Unit with bayonet base lamps and with sand-blasted glass letters; for mounting on 3½″ I.D. pipe post	2800–1
5a	Type 2800 STOP Unit with bayonet base lamps and with metal cutout letters; for mounting on 3½″ I.D. pipe post	2800–4
6	Type 2801 STOP Unit with medium screw base lamps and with sand-blasted glass letters; for mounting on 3½″ I.D. pipe post	2801–1
6a	Type 2801 STOP Unit with medium screw base lamps and with metal cut-out letters; for mounting on 3½″ I.D. pipe post	2801–4
	Replacement Parts	
10	Cap screw with iron washer	
11	Top support	2805
12	Door	2802–1
13	Roundel retaining ring	2954
14	Hood	2821
15	Locking bolt with theft resisting cup washer, iron washer, and cotter pin	2806–1
16	Parabolic glass reflector (for Type 2800 Unit only)	832
17	Parabolic glass reflector (for Type 2801 Unit only)	2850–10
18	Reflector support (for Type 2800 Unit only)	2810
19	Reflector support (for Type 2801 Unit only)	2807
20	Sand-blasted glass letter "S"	2856
20a	Metal cutout letter "S"	1806–626
21	Sand-blasted glass letter "T"	2857
21a	Metal cutout letter "T"	1806–627
22	Sand-blasted glass letter "O"	2858
22a	Metal cutout letter "O"	1806–628
23	Sand-blasted glass letter "P"	2859
23a	Metal cutout letter "P"	1806–629
24	Terminal block	1056–10
25	Red convex roundel	
26	Red flat roundel	
27	Bayonet base lamp bulb (Specify voltage and wattage)	
28	Medium screw base lamp bulb (Specify voltage and wattage)	
29	Assembly of socket and bushing for Type 2800 Unit	2850–1
30	Assembly of socket and bushing for Type 2801 Unit	2820–1
31	Housing	2803–1
32	Bottom bracket	2804
33	U-bolt for 4″ I.D. pipe post complete with nuts and washers	1207–1
34	U-bolt for 5″ I.D. pipe post complete with nuts and washers	1207–2
34a	U-bolt for 3½″ I.D. pipe post complete with nuts and washers	1207–3
35	Seal packing ring	2864

WESTERN RAILROAD SUPPLY COMPANY

No Turn Sign

FOR USE ON STREETS PARALLEL TO RAILROAD TO PREVENT RIGHT OR LEFT TURN ACROSS TRACKS

Many vexing protection problems are easily solved by the use of **"NO RIGHT TURN"** or **"NO LEFT TURN"** signs which permit highway traffic to move over intersections on streets paralleling railroads yet prevent its turning onto the railroad tracks. The wording is visible only when illuminated on the approach of a train.

SPECIFICATIONS

Dimensions: 14½" x 16".

Letters: 3" with ½" stroke, red glass, black background.

Lamp sockets: Eight single contact bayonet base. Lamp bulbs not furnished unless specified.

Mounting: U-Bolts with nuts and washers are furnished for mounting on 3½", 4" or 5" I.D. pipe post unless otherwise specified.

ORDERING REFERENCE

Specify Plate Number L55, Reference Number, and Description

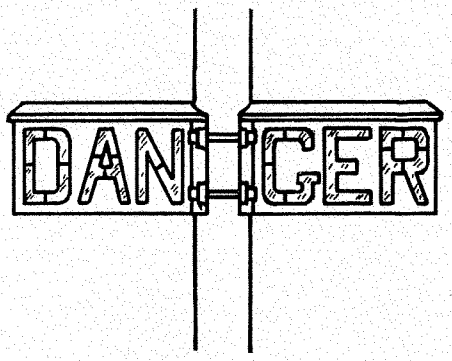
Ref. No.	Description	Piece No.
1	Type 3114 NO RIGHT TURN Sign complete for mounting on 4" I.D. pipe	3114R–4
2	Type 3114 NO RIGHT TURN Sign complete for mounting on 3½" I.D. pipe	3114R–3
3	Type 3114 NO RIGHT TURN Sign complete for mounting on 5" I.D. pipe	3114R–5
4	Type 3114 NO LEFT TURN Sign complete for mounting on 4" I.D. pipe	3114L–4
5	Type 3114 NO LEFT TURN Sign complete for mounting on 3½" I.D. pipe	3114L–3
6	Type 3114 NO LEFT TURN Sign complete for mounting on 5" I.D. pipe	3114L–5
	Replacement Parts	
10	Red glass only. Specify "NO RIGHT TURN" or "NO LEFT TURN"	3114–10
11	Lamp socket only	2850–1
12	Single contact bayonet base, S-11 bulb, lamp only	

For signal assembly complete with this sign see Plate D405
For non-illuminated signs see Catalog Section H

WESTERN RAILROAD SUPPLY COMPANY

Type 1909 Illuminated DANGER Sign

TWO-PIECE—TWO-WAY INDICATION



At many locations and in several states it is necessary to provide electrically lighted "DANGER" signs. Where it is desirable to mount such a sign on a pipe mast and to reduce projection to a minimum, the **Type 1909 Illuminated DANGER Sign** is especially suitable.

SPECIFICATIONS

Dimensions: Approximately 36″ x 8″ when mounted.

Letters: 7″ high with 1¼″ stroke; ruby glass.

Lamp sockets: Four medium screw base, unless otherwise specified. Lamp bulbs are not furnished unless specified.

Mounting: Bolts, nuts, and washers are furnished for mounting on 4″ I.D. pipe unless otherwise specified.

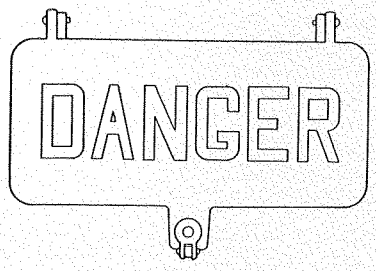
ORDERING REFERENCE

Specify Plate Number L60, Reference Number, and Description

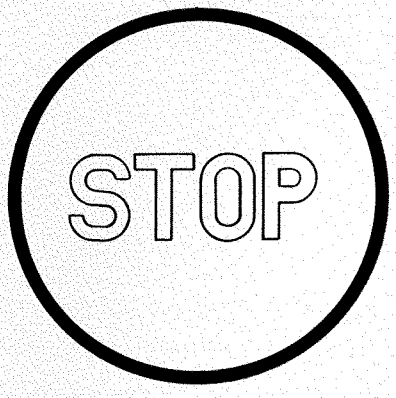
Ref. No.	Description	Piece No.
1	Type 1909 Illuminated DANGER Sign for mounting on 4″ I. D. pipe post	1909
	Replacement Parts	
2	Ribbed wire glass, ruby colored	1911
3	Medium screw base lamp socket	
4	Medium screw base lamp bulb (Specify voltage and wattage)	
5	Housing only, reading DAN on one side and GER on other	1909–10

For non-illuminated signs see Catalog Section H.

Illuminated Signs



Type 3120
Letters Always Visible
Type 3125
Letters Visible
Only When Illuminated



Type 3100
Letters Always Visible
Type 3105
Letters Visible
Only When Illuminated

Type 3120, 9″ by 19½″, has letters 4″ high with ½″ stroke outlined in black and always visible. The glass in the letters is translucent. Type 3125 is similar to Type 3120 except that the letters are not outlined and therefor only visible when illuminated. The glass in Type 3125 is red.

Type 3100, 21″ in diameter, has letters 4⅞″ high with ⅞″ stroke outlined in black and always visible. The glass in the letters is translucent. Type 3105 is similar to Type 3100 except that the letters are not outlined and therefor only visible when illuminated. The glass in Type 3105 is red.

All four Types are furnished with four parabolic glass reflectors and four single contact bayonet base lamp sockets. Lamp bulbs are not furnished unless specified.

U-bolts complete with nuts and washers are provided for mounting on 4″ I.D. pipe unless otherwise specified.

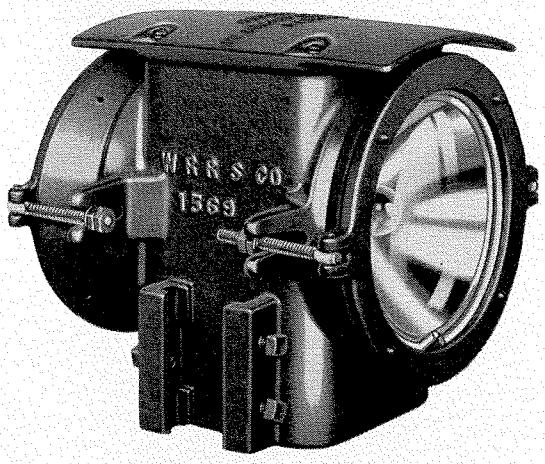
ORDERING REFERENCE
Specify Plate Number L65, Reference Number, and Description

Ref. No.	Description	Piece No.
1	Type 3120 Illuminated DANGER Sign for mounting on 4″ I.D. pipe post	3120
2	Type 3125 Illuminated DANGER Sign for mounting on 4″ I.D. pipe post	3125
3	Type 3100 Illuminated STOP Sign for mounting on 4″ I.D. pipe post	3100
4	Type 3105 Illuminated STOP Sign for mounting on 4″ I.D. pipe post	3105
	Replacement Parts	
5	Translucent glass only	3103–1
6	Red glass only	3109
7	Parabolic glass reflector only	
8	Lamp socket only	
9	Single contact bayonet base, S-11 bulb, lamp (Specify voltage and wattage)	

For non-illuminated signs see Catalog Section H.

Type 1569 Adjustable Train Order Lamp

CAST IRON



The Type 1569 Train Order Lamp is of cast iron and as such is more durable and withstands the ravages of gases and the elements better than a sheet metal lamp. Type 1569 Lamp is the simplest compact arrangement yet devised for the lighting of train order signals. It is constructed to permit easy access for inspection or renewal of lamp bulbs.

Each projection unit, consisting of mejiradium reflector, single contact bayonet base lamp socket, and clear, convex cover glass, is adjustable in the vertical plane through 10 degrees and in the horizontal plane through 20 degrees. Light beams may thus be aligned to compensate for curves or grades approaching the location of the train order signal.

Lamp bulbs are not furnished unless specified.

Maximum over all length 9″ with projection units adjusted to maximum angles.

ORDERING REFERENCE

Specify Plate Number L70, Reference Number, and Description

Ref. No.	Description	Piece No.
1	Type 1569 Train Order Lamp	1569
	Replacement Parts	
11	Cast iron lamp housing only	1569–1
12	Cast iron cover only	1569–2
13	Adjustable projection unit with reflector and cover glass complete	1569–11
14	Projection unit body only	1569–3
15	Reflector and socket unit only	1569–12
16	Projection unit front ring with eyebolts and nuts	1569–13
17	Eyebolt only	1569–5
18	Clear convex cover glass	
19	Cover glass retaining spring only	1028–3
20	Single contact bayonet base, S-11 bulb, lamp only (Specify voltage and wattage)	

WESTERN RAILROAD SUPPLY COMPANY

Type 1568 Electric Semaphore Lamp

A. A. R. SIGNAL SECTION, DRAWING 1446

Type 1568 Electric Semaphore Lamp is of cast iron construction perfectly machined and fitted to be sealed from the effects of the elements. It is designed to meet the specifications of A. A. R. Signal Section, Drawing 1446.

It is equipped with glass margin mirror reflectors and 5⅜" clear glass roundels, flat or convex as specified. Lamp sockets are for use with single contact bayonet base lamps.

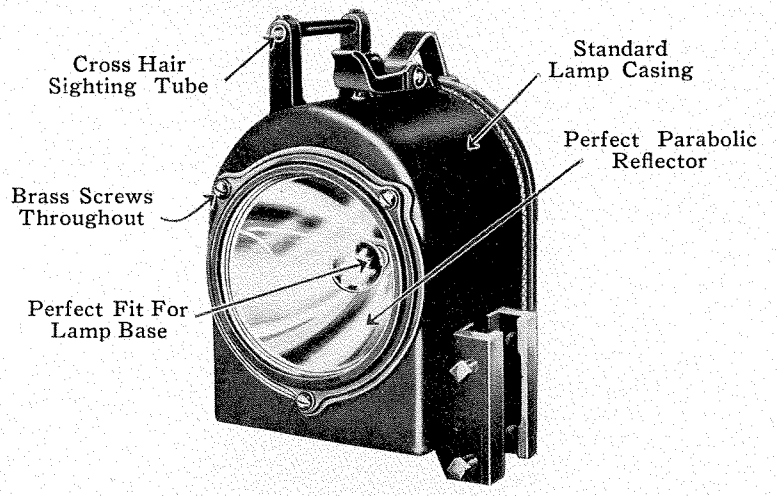
Lamp bulbs are not furnished unless specified.

ORDERING REFERENCE

Specify Plate Number L75, Reference Number, and Description

Ref. No.	Description	Piece No.
1	Type 1568 Electric Semaphore Lamp complete with convex roundel	1568–1
2	Type 1568 Electric Semaphore Lamp complete with flat roundel	1568–2
	Replacement Parts	
10	Clear convex roundel	
11	Clear flat roundel	
12	Single contact bayonet base lamp socket	1568–24
13	Lamp bracket	1568–14
14	Mangin mirror reflector	
15	Roundel Gasket	1568–18
16	Single contact bayonet base, S-11 bulb, lamp (Specify voltage and wattage)	

Type QARA Lamp



This Lamp has a cast iron housing and is doubly-sealed (practically hermetically) from the effects of the elements. It embodies the most advanced features in modern semaphore lamp construction. Every lamp is equipped with a cross-hair sighting tube which also serves as a handle. It is furnished with a high lustre finish metal reflector.

The A.A.R. specifications provide that single contact lamp bulbs shall be standard, unless double contact bulbs are specified. This lamp is furnished with a single contact bayonet base lamp socket unless otherwise specified.

Lamp bulbs are not furnished unless specified.

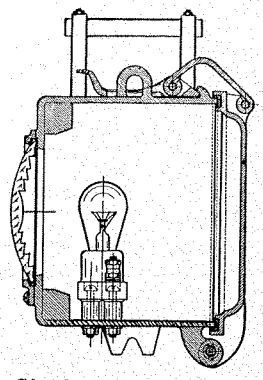
ORDERING REFERENCE

Specify Plate Number L80, Reference Number, and Description

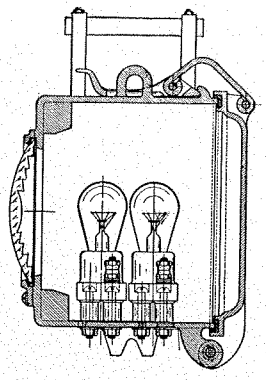
Ref. No.	Description	Piece No.
1	Type QARA Lamp	1003-51
	Replacement Parts	
10	Case complete (does not include reflector or lamp socket assembly)	1003-63
11	Reflector unit complete with socket and terminals	1003-62
12	Housing casting only	1003-1
13	Cover only	1003-2
14	Latch only	1003-3
15	Latch spring only	1003-5
16	Packing for door	1003-33
17	Clear convex cover glass	
18	Gasket	1000-116
19	Cross-hair sighting tube	1003-6
20	Single contact bayonet base, S-11 bulb, lamp only	

Type QARA Lamps

FOR INTERLOCKING PLANTS



Single Lamp Socket Screw Base S-14 Bulb Type



Double Lamp Socket Screw Base S-14 Bulb Type

These lamps are arranged for medium screw base lamps having S-14 bulb. The socket is of special design which provides a spring friction means of securing the lamp against vibrating loose. Each lamp socket is equipped with Standard A.A.R. Terminals for connection. These lamps are especially desirable where 110 volt supply is used. Unless otherwise specified these lamps are equipped with a clear optical lens.

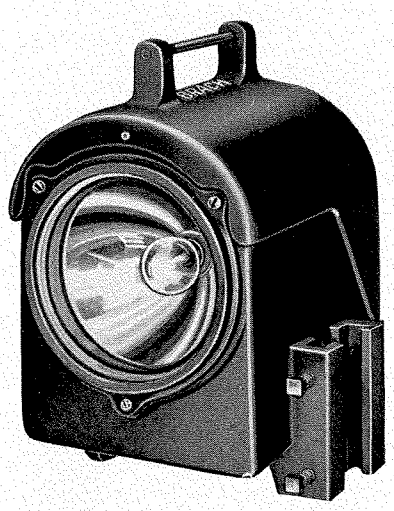
Lamp bulbs are not furnished unless specified.

ORDERING REFERENCE

Specify Plate Number L85, Reference Number, and Description

Ref. No.	Description	Piece No.
1	Type QARA Lamp for interlocking plants with single lamp socket	1009–51
2	Type QARA Lamp for interlocking plants with double lamp socket	1009–52
	Replacement Parts	
10	Case complete (does not include lamp socket)	1009–63
11	Lamp socket unit complete	R3901–A
12	Main case casting only, not drilled for lamp sockets	1003—1
13	Cover only	1003–2
14	Latch only	1003–3
15	Latch spring only	1003–5
16	Door packing	1003–33
17	Clear glass optical lens	1000–116
18	Lens gasket	
19	Medium screw base, S-14 bulb, lamp	

Type Q Lamp



Type Q Lamp has a two-piece casing with chain connecting the cover to the body casing of the lamp and a brass latch arranged for locking.

The Type Q Lamp conforms to the general description of the Type QARA with the exception of the two-piece casing and certain minor details in the method of supporting the reflector and bulb unit.

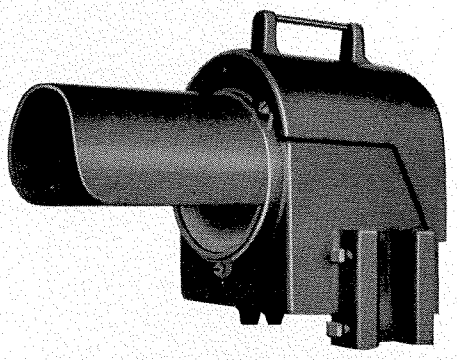
All other features explained in the description of the QARA are embodied in this lamp. Lamp bulbs are not furnished unless specified.

ORDERING REFERENCE

Specify Plate Number L90, Reference Number, and Description

Ref. No.	Description	Piece No.
1	Type Q Lamp complete	1001
	Replacement Parts	
10	Case complete (Does not include reflector or socket assembly)	1001–63
11	Complete reflector unit (includes socket)	1001–62
12	Main case casting	1001–1
13	Cover only	1001–2
14	Gasket	1000–116
15	Clear convex roundel	
16	Handle	1001–12
17	Hasp only	1001–3
18	Chain only	
19	Single contact bayonet base, S-11 bulb, lamp only	

Type S Marker Lamp



The Type S Marker Lamp embodies all of the features of the Type Q Semaphore Lamp and differs only in so far as it has a protecting hood and is further provided with a roundel. The lamp is furnished with either a glass or mejiradium parabolic reflector or may be furnished without any reflector at all. Any color roundel can be furnished; if no particular roundel is specified, a clear roundel will be furnished with lamps using a reflector. A lunar white optical lens will be furnished with lamps not equipped with reflector. Roundels will be spreadlite unless otherwise specified.

In addition to the advantages of the reflector and bulb combination unit, the use of the spreadlite roundel gives this lamp a very wide angle light beam. Lamp socket is single contact bayonet base with lamps with reflectors. Lamps without reflectors are furnished with medium screw base socket.

Lamp bulbs are not furnished unless specified.

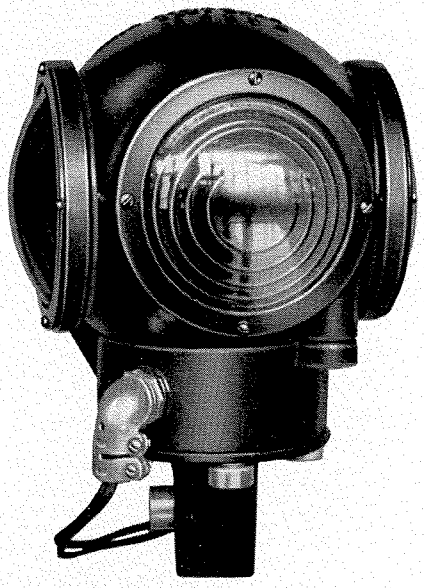
ORDERING REFERENCE

Specify Plate Number L95, Reference Number, and Description

Ref. No.	Description	Piece No.
1	Type S Marker Lamp with parabolic glass reflector	1008–A
2	Type S Marker Lamp with mejiradium reflector	1008–B
3	Type S Marker Lamp without reflector, for medium screw base lamp socket	1008–L
	Replacement Parts	
11	Glass reflector unit complete with socket assembly	1001–72
12	Mejiradium reflector unit complete with socket assembly	1001–62
13	Lamp socket assembly for medium screw base lamps	R3901–A
14	Cover only	1001–2
15	Spreadlite roundel (as specified)	
16	Lunar white lens only	
17	Lens gasket	1000–116
18	Handle only	1001–12
19	Single contact bayonet base, S-11 bulb, lamp only (Specify voltage and wattage)	
19a	Medium screw base, S-14 bulb, lamp only (Specify voltage and wattage)	

WESTERN RAILROAD SUPPLY COMPANY

Type 1870 Cast Iron Electric Switch Lamp



Type 1870 Electric Switch Lamp can be furnished to fit any switch stand staff as specified on order.

This lamp is especially suitable for use with the Switch Lighting Outfits as described on Plate L120.

The red lenses are 4½″ in diameter with 3″ focus. The green lenses are 4⅛″ in diameter with 2¾″ focus. Both are of fluted design, especially manufactured for electric illuminant. Because of difference in size no error in installation can be made.

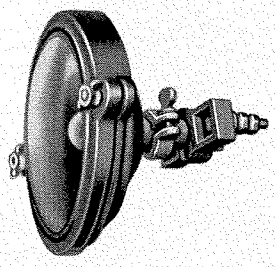
Lamp bulbs are not furnished unless specified. Lamp socket is for single contact bayonet base, S-11 bulb, lamp, having 1¼″ L.C.L.

ORDERING REFERENCE

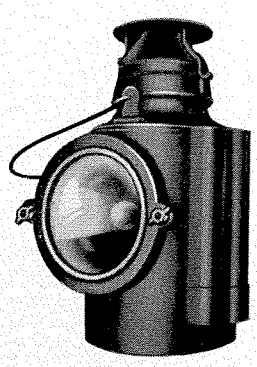
Specify Plate Number L100, Reference Number, and Description

Ref. No.	Description	Piece No.
1	Type 1870 Switch Lamp complete (Specify dimensions of switch stand staff)	1870
	Replacement Parts	
2	4½″ diameter red fluted lens only	
3	4⅛″ diameter green fluted lens only	
4	Lens ring only for red lens	1870–5
5	Lens ring only for green lens	1870–6
6	Gasket for red lens	1870–7
7	Gasket for green lens	1870–8
8	Lamp socket and bushing	1553–8
9	Single contact bayonet base lamp bulb only (Specify voltage and wattage)	

Type 1028 Electric Lamp Adaptor



Type 1028 Adaptor



Semaphore Lamp Equipped with Type 1028 Adaptor

This unit is readily attached to any standard sheet metal oil burning semaphore lamp to convert it into an electric semaphore light. When 10 watt or 18 watt lamps are used a very good daytime light is obtained, comparable with color light signals.

As in the Type QARA, the lamp and reflector are sealed against gases, dirt, insects, and moisture, but the unit is readily accessible for changing bulbs or for focusing. All parts are built of heavy non-rusting material. Connections are made to standard A.A.R. binding posts. To attach this adaptor to the oil lamp, simply remove the present lens and lens ring, then slip the Adaptor Unit into place through the front of the lamp, retaining the unit in place by a new lens ring furnished with the adaptor.

Lamp bulb is not furnished unless specified. The lamp socket is for single contact bayonet base, S-11 bulb, lamp.

ORDERING REFERENCE

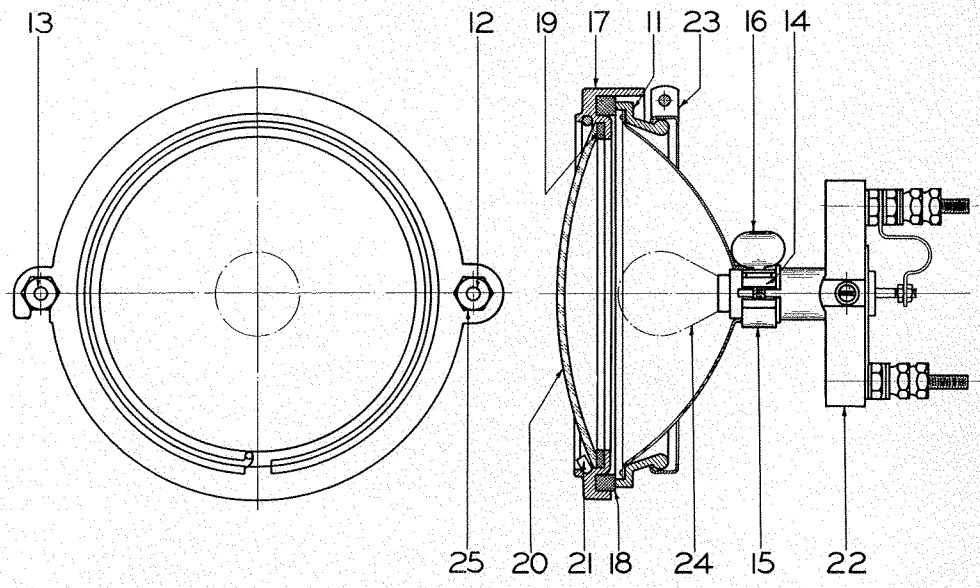
Specify Plate Number L105, Reference Number, and Description

Ref. No.	Description	Piece No.
1	Type 1028 Adaptor for replacing 5″ lens	1028–A
2	Type 1028 Adaptor for replacing 5⅜″ lens	1028–B

For replacement parts see following page.

Type 1028 Electric Lamp Adaptor

(Continued)



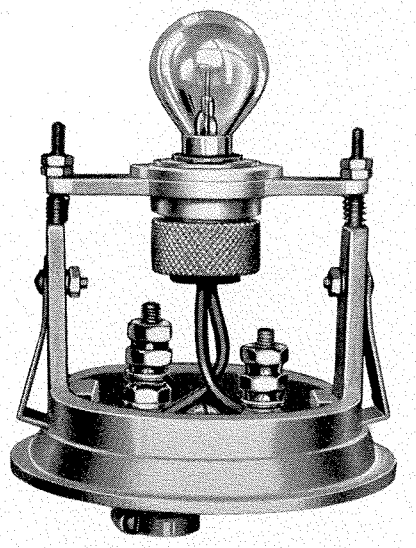
For adaptor complete see preceding page.

ORDERING REFERENCE

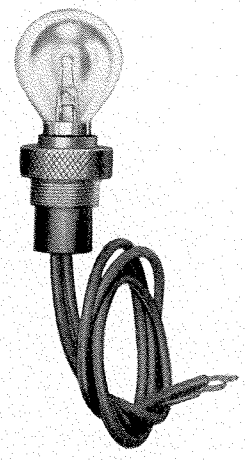
Specify Plate Number L105, Reference Number, and Description

Ref. No.	Description	Piece No.
11	Reflector complete with mounting ring, studs, and clamps (for 5″ lens)	1028–25A
11a	Reflector complete with mounting ring, studs, and clamps (for 5⅜″ lens)	1028–25B
12	Stud	1028–23
13	Stud	1028–22
14	Clamp	1000–12
15	Clamp	1000–11
16	Thumb screw with plain washer and lock washer	
17	Cover glass ring with packing and gasket	1028–26
18	Packing	
19	Gasket	1028–21
20	Clear convex roundel	
21	Roundel retaining spring	1028–3
22	Lamp socket and terminal block assembly	1003–59
23	Clamp ring complete with screw and nut (for 5″ lens)	1028–15
23a	Clamp ring complete with screw and nut (for 5⅜″ lens)	1028–18
24	Single contact bayonet base, S-11 bulb, lamp (Specify voltage and wattage)	
25	Binding nut	10706

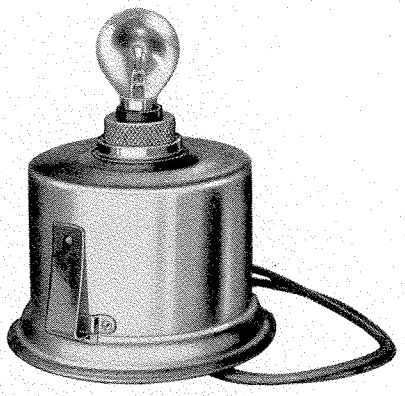
Electric Lamp Adaptors



Type 1832



Type 875-50



Type 875-50
Installed

Type 1832 Switch Lamp Adaptor is applicable to the older types of oil burning switch lamps where the fount is inserted from the bottom. The lamp socket is cushioned against shock.

Type 875-50 Adaptor is designed to screw into the threaded insert which held the burner in the oil fount, thereby converting the oil lamp into an electric lamp suitable for modern switch and semaphore lighting. The vertical position of the lamp filament is adjustable.

Lamp bulbs are not furnished unless specified.

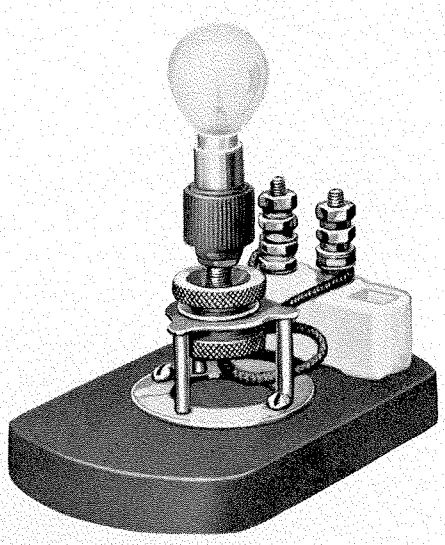
ORDERING REFERENCE

Specify Plate Number L110, Reference Number, and Description

Ref. No.	Description	Piece No.
1	Type 1832 Electric Lamp Adaptor	1832
2	Type 875–50 Electric Lamp Adaptor (Specify type of fount or diameter and number of threads per inch)	875–50
3	Single contact bayonet base, S-11 bulb, lamp only	

WESTERN RAILROAD SUPPLY COMPANY

Type 1801 Pedestal Lamp Adaptor



Type 1801 Pedestal Lamp Adaptor

Where nearly new oil lamps become obsolete because of the desire to use electrical illumination for semaphore or switch signals, it is economical to use the oil lamp housings and discard only the founts. For this purpose we have designed the adaptor illustrated above to mount in the oil lamp case in place of the fount.

The focusing of the lamp, with relation to the lens, is easily accomplished. The adjustments are sufficient in every direction to compensate for any irregularities. The adjuster may be removed from the base and mounted in the A.A.R. cast iron lamp case after the oil lamp housing has become useless. This additional economy is worthy of consideration.

Lamp bulbs are not furnished unless specified.

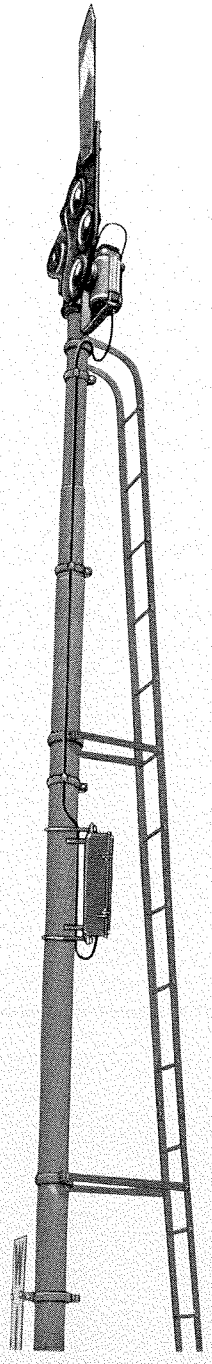
In ordering, specify A.A.R. oil lamp bodies, if used, or height and size of founts, if other lamp bodies are used.

ORDERING REFERENCE

Specify Plate Number L115, Reference Number, and Description

Ref. No.	Description	Piece No.
1	Type 1801 Pedestal Lamp Adaptor complete with base and terminal block (Specify A. A. R. oil lamp body, or height and size of fount if other lamp body is used)	1801
2	Type 1801 Pedestal Lamp Adaptor less base and terminal block	1810
3	Single contact bayonet base, S-11 bulb, lamp (Specify voltage and wattage)	

Switch and Semaphore Lighting Outfits



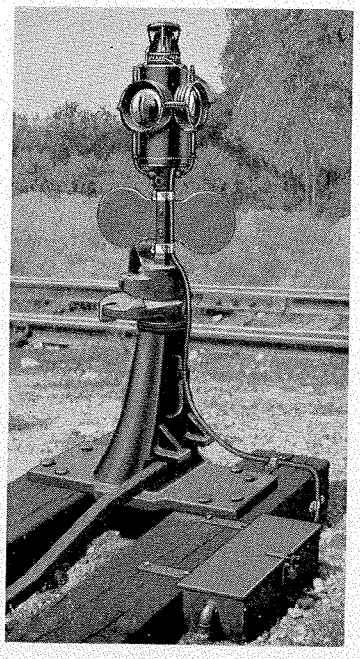
The Western Railroad Supply Company Switch and Semaphore Lighting Outfits provide an economical means of changing from oil to electric lighting at locations where commercial current is not available.

The Outfits include any one of the several adaptors or lamps shown on the preceding pages of this catalog section. Four air-depolarized batteries are furnished with sufficient armoured cable or Okocord (two conductor No. 14) for installation.

A special 2.7 volt 150-m.a. lamp is part of each outfit. This lamp bulb has a life of 4000 hours (approximately 7 months), with less than 5 per cent burning out in service, if powered by 4 cells of No. 1517 air-depolarized dry cells, connected in series multiple to give three volts. The battery cells also have a capacity for 4000 hours of continuous lighting. Due to the characteristics of the special lamp bulb and the air-depolarized batteries, both can be changed out together, thereby reducing maintenance to a minimum.

At the left is shown a typical installation of the Type 1840 Lighting Outfit; at the right, below, is an installation of the Type 1830 Outfit.

Due to the fact that the various adaptors are designed so that they can be furnished for use with many different oil lamps, certain information is necessary when ordering lighting outfits so that no delay will be experienced in filling orders. Refer to the page on which the particular adaptor or lamp is described and be sure to include all information asked for.

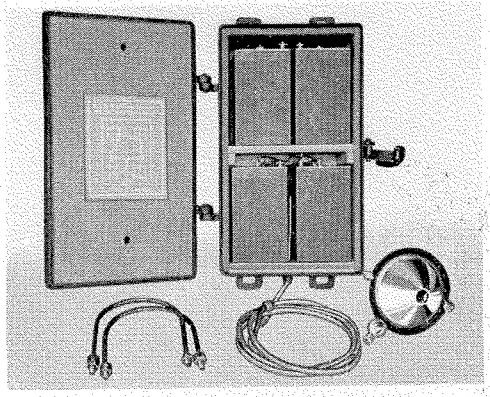


Type 1840 Outfit is furnished complete with U-bolts, nuts, and washers for mounting the battery box on 5″ I.D. pipe unless otherwise specified.

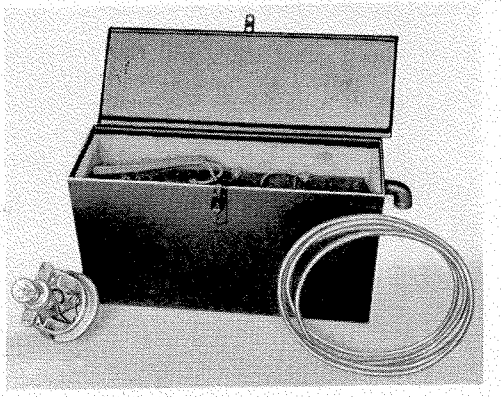
Type 1830 Outfit is furnished with lag screws for mounting the battery box on the tie.

Type 1844 Outfit is for installation in battery containers made from 12″ vitreous tile and includes a battery rack and cover with watertight bushing and Okocord for installation.

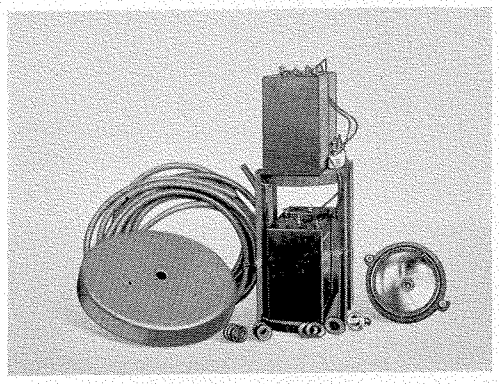
Switch and Semaphore Lighting Outfits



Typical Type 1840 Lighting Outfit



Typical Type 1830 Lighting Outfit



Typical Type 1844 Lighting Outfit

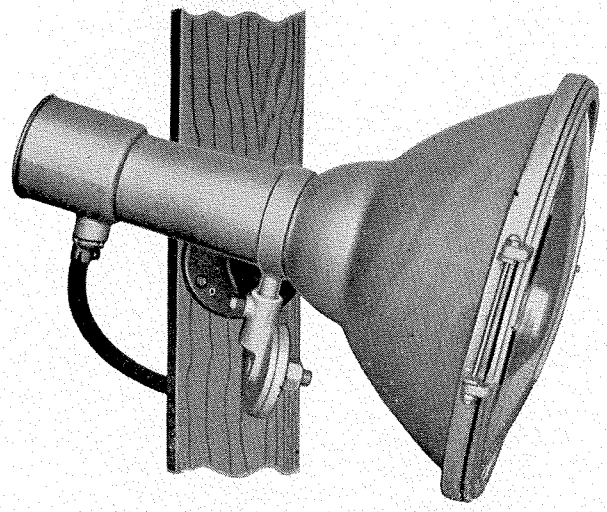
These outfits can be furnished with any adaptor or lamp shown in this catalog. See preceding page for general description. Specify information desired with particular adaptors.

ORDERING REFERENCE
Specify Plate Number L120, Reference Number, and Description

Ref. No.	Description	Dwg. Ref.
1	Type 1830 Lighting Outfit complete with special lamp bulb, four batteries, 15′ of armoured cable, battery box, and Type 1832 Adaptor	Dwg. 1830
2	Type 1830 Lighting Outfit complete with special lamp bulb, four batteries, 15′ of armoured cable, battery box, and Type 875-50 Adaptor	
3	Type 1830 Lighting Outfit complete with special lamp bulb, four batteries, 15′ of armoured cable, battery box, and Type 1801 Adaptor	
4	Type 1840 Lighting Outfit complete with special lamp bulb, four batteries, 15′ of armoured cable, battery box, and Type 1028 Adaptor	Dwg. 1840
5	Type 1840 Lighting Outfit complete with special lamp bulb, four batteries, 15′ of armoured cable, battery box, and Type 1801 Adaptor	
6	Type 1840 Lighting Outfit complete with special lamp bulb, four batteries, 15′ of armoured cable, battery box, and Type 875-50 Adaptor	
7	Type 1844 Lighting Outfit complete with special lamp bulb, four batteries, 30′ of Okocord cable, battery rack, and Type 1028 Adaptor	Dwg. 1844
8	Type 1844 Lighting Outfit complete with special lamp bulb, four batteries, 30′ of Okocord cable, battery rack, and Type 1832 Adaptor	
9	Type 1844 Lighting Outfit complete with special lamp bulb, four batteries, 30′ of Okocord cable, battery rack, and Type 1801 Adaptor	
10	Type 1844 Lighting Outfit complete with special lamp bulb, four batteries, 30′ of Okocord cable, battery rack, and Type 875-50 Adaptor	
11	Special 2.7 volt 150-m.a. lamp bulb	1832-4
12	No. 1517 Air-Depolarized Dry Cell (Four required)	1517

Any other combination of Lighting Outfit can be furnished to order.

Type 1895-200 Floodlight



Type 1895-200 Floodlight has proved very effective in preventing automobiles from running into the side of cars at dark and obscure crossings at night. They can be installed with time relays or sun relays so that they will burn steadily after dark; or they can be installed to burn only when a train is approaching or on the crossing. In the latter installation, it has been seen that the sudden illumination of the crossing provides an effective warning in addition to the other warning indications installed on the crossing.

Type 1895-200 Crossing Signal Floodlight is an electro-formed floodlight, i. e., the reflector is the housing for the floodlight. It is built up entirely by the electrolytic deposit of copper on a steel mould with the interior of the housing (or reflector) highly polished and rhodium-plated, with a high lustre finish.

The floodlight is equipped with a double filament lamp bulb and a light-out relay in series with the 200 watt filament, so that in the event that it burns out the 150 watt reserve filament will light up. The light-out relay is mounted in the neck of the floodlight, behind the lamp socket, where it is easily accessible without opening the front of the lamp.

Type 1895-200 is provided for mounting on wood poles unless especially ordered with clamps for mounting on steel pipe masts.

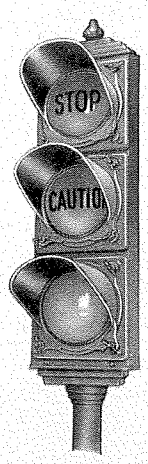
ORDERING REFERENCE

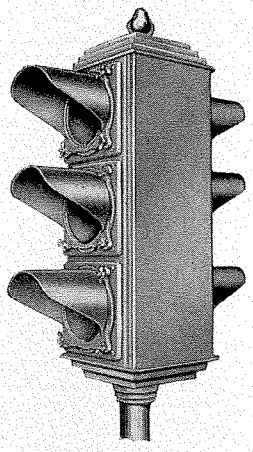
Specify Plate Number L130, Reference Number, and Description

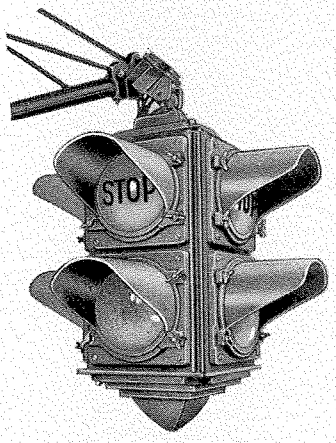
Ref. No.	Description	Piece No.
1	Type 1895-200 Floodlight	1895-200
	Replacement Parts	
2	Light-out relay	1895-206
3	PS-35 110 volt double filament lamp bulb (150-200 watts)	
4	Cover glass only	

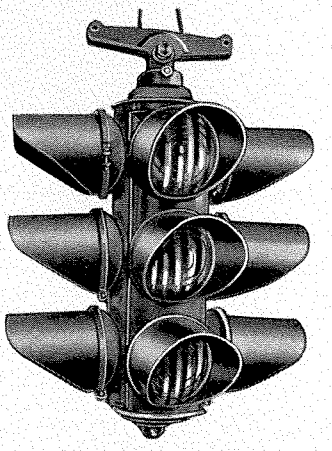
We can furnish other type Floodlights for other purposes such as illuminating railroad yards, station platforms, signs, etc.

Highway Traffic Signals









The Western Railroad Supply Company can furnish any type of Electric Traffic Signal and its control equipment. Different types of units for various methods of mounting are available. Control apparatus to provide for automatic, manual, or semi-automatic operation can be furnished to meet specifications. Complete details and literature on request.

PRINTING PRODUCTS CORPORATION—CHICAGO

5M-37

INSERT IN BINDER FOLLOWING SECTION L

Supplement 1 for Catalog Section L

WESTERN RAILROAD SUPPLY COMPANY

MANUFACTURERS

General Offices and Factory
2360 South Ashland Avenue
Chicago, Ill.

●

District Offices in

New York, N. Y.
Denver, Colo.
St. Louis, Mo.
Cleveland, Ohio
Houston, Texas

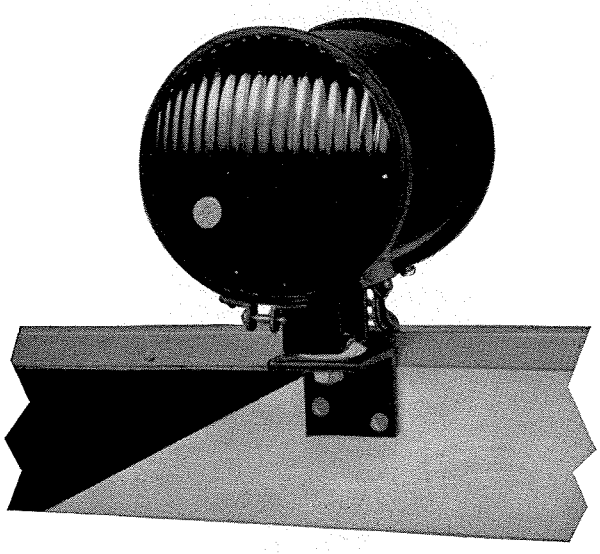
Printed in U.S.A.

1941

WESTERN RAILROAD SUPPLY COMPANY

Type 1573 Gate Lamp

TWO-WAY INDICATION—5⅜" DIAMETER LENSES



Type 1573 Gate Lamp is a two-way indication lamp with two 5⅜" diameter lenses placed opposite each other in exact focus with the lamp filament. Two types of lenses are available—30° spreadlite lenses or standard optical lenses. Design permits adjustment of alignment in both horizontal and vertical planes.

SPECIFICATIONS

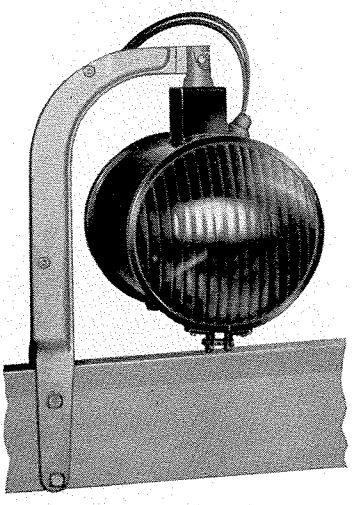
Weight: Two and one-quarter pounds.
Lenses: 5⅜" diameter, red 30° spreadlite lenses, or 5⅜" diameter, red optical lenses.
Lamp Socket: Single contact bayonet base. Lamp bulb not furnished unless specified.
Body: Aluminum.

ORDERING REFERENCE
Specify Plate Number L7, Reference Number and Description

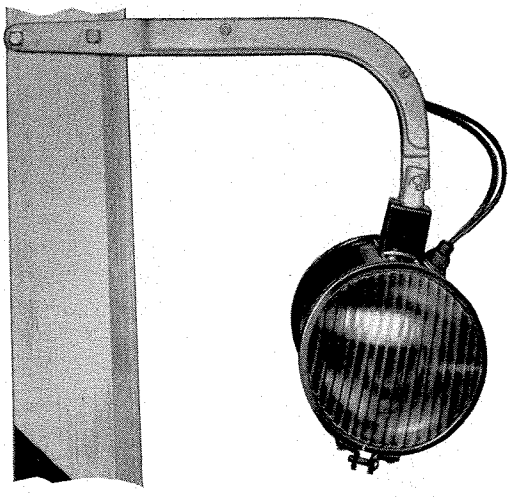
Ref. No.	Description	Piece No.
1	Type 1573 Gate Lamp complete, with red 30° spreadlite lenses	1573-50
2	Type 1573 Gate Lamp complete, with red optical lenses	1573-50A
3	Red 30° Spreadlite Lens only	5330
4	Red Optical Lens only	5331
5	Lens Ring only	0500-106S-B

Type 1573 Suspension Type Gate Lamp

TWO WAY INDICATION—5⅜" DIAMETER LENS



View of Lamp When Gate Is Down



View of Lamp When Gate Is Up

Type 1573 Suspension Type Gate Lamp is the same lamp body as the Type 1573 shown on the preceding page equipped with a bracket which allows the lamp to hang so that the vertical axis of the lenses is always perpendicular to the surface of the highway.

SPECIFICATIONS

Weight: Two and three-quarter pounds.
Lenses: 5⅜" diameter, red, 30° spreadlite lenses.
Lamp Socket: Single contact bayonet base. Lamp bulbs are not furnished unless specified.
Construction: Aluminum.

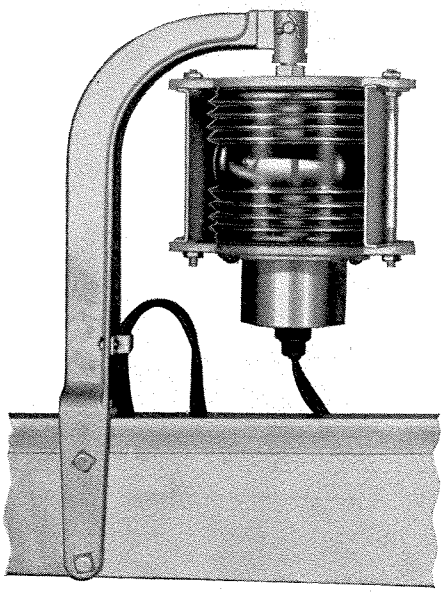
ORDERING REFERENCE
Specify Plate Number L8, Reference Number and Description

Ref. No.	Description	Piece No.
1	Type 1573 Suspension Type Gate Lamp	1573-250
2	5⅜" Diameter, Red 30° Spreadlite Lens	5330
3	Lens Ring	0500-106S-B

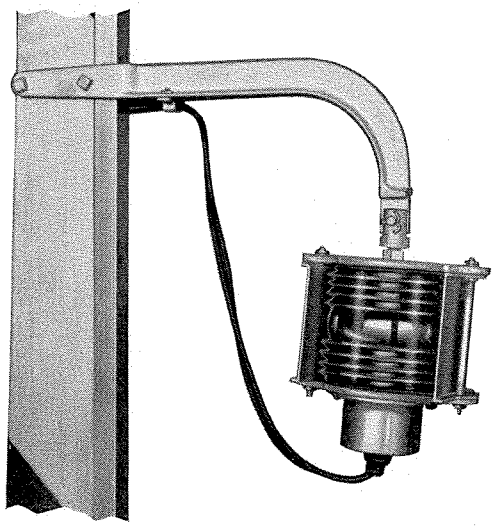
WESTERN RAILROAD SUPPLY COMPANY

Type 1575 Gate Lamp

TWO-WAY INDICATION—FRESNEL LENS



View of Lamp When Gate Is Down



View of Lamp When Gate Is Up

Type 1575 Gate Lamp is equipped with a 3⅝″ diameter, red, 360° Fresnel lens shielded so that the light can not be seen at a distance by the train crew. A suspension bracket is provided so that the axis of the lens is always vertical. For use with single contact bayonet base, S-11 bulb, lamp with 1¼″ LCL; or, medium screw base A-19 clear bulb, 25 watt, 115 volt, with rough service filament.

SPECIFICATIONS

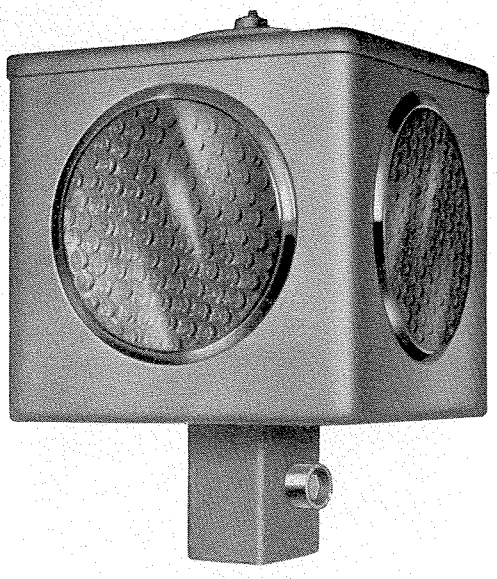
Lamp Socket: Single contact bayonet base or medium screw base as specified. Lamp bulb is not furnished unless specified.
Weight: Two and one-quarter pounds.
Lens: 3⅝″ diameter, red, 360° Fresnel lens.

ORDERING REFERENCE
Specify Plate Number L9, Reference Number and Description

Ref. No.	Description	Piece No.
1	Type 1575 Gate Lamp with single contact bayonet base lamp socket	1575
2	Type 1575 Gate Lamp with medium screw base lamp socket	1575-250
3	Red Fresnel Lens	1575-11

WESTERN RAILROAD SUPPLY COMPANY

Type 3300B Reflector Lens Switch Lamp



Type 3300B Reflector Lens Switch Lamp is equipped with four Corning Doublet Reflecting Units with any of the three color combinations shown in the Ordering Reference table below. The Reflecting Units are 5⅜″ in diameter. The entire lamp is approximately 7″ square and 10¼″ high.

The nut which holds the cover on the housing and the bolt which fastens the lamp to the switch stand staff can be furnished in two types, i.e., with theft-resisting cups so that an A.A.R. socket wrench must be used to remove the lamp or the cover; or without the theft-resisting cups so that standard wrench may be used. Unless otherwise specified, theft-resisting cups will be furnished.

Each reflecting unit displays a full lens indication through an angle of 24° (12° either side of center) in any plane.

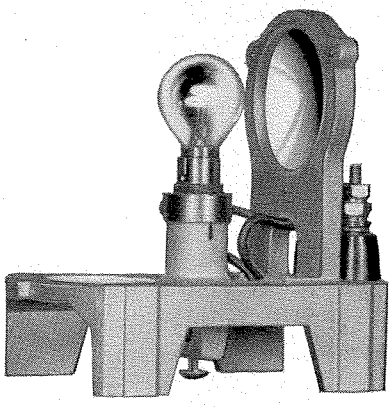
TYPE OF SWITCH STAND STAFF SHOULD BE SPECIFIED AND A DRAWING OF IT FURNISHED IF POSSIBLE

ORDERING REFERENCE
Specify Plate Number L104, Reference Number and Description

Ref. No.	Description	Drawing Reference
1	Type 3300B Reflector Lens Switch Lamp with Red and Green Lenses	3300B
2	Type 3300B Reflector Lens Switch Lamp with Yellow and Green Lenses	3300B
3	Type 3300B Reflector Lens Switch Lamp with Red and Yellow Lenses	3300B
4	Corning Doublet Reflecting Lens only (Specify color)	3300-60

WESTERN RAILROAD SUPPLY COMPANY

Type 1524 Semaphore Lamp Adaptor



Type 1524 Semaphore Lamp Adapter is designed for use in cast iron or sheet iron semaphore lamps. The lamp bulb is properly focused at the factory and the lamp socket is fixed so that if precision filament lamp bulb is used after the original bulb is burned out no additional focusing is required.

The reflector projects an inverted image of the filament at the focal point increasing the intensity of the light beam approximately 25%.

Lamp bulb furnished is single contact bayonet base, S-11 bulb, 1¼" L.C.L., C2R filament (A.A.R., Signal Section Drawing 1544) of voltage and wattage as specified.

SPECIFY FOCAL LENGTH OF OPTICAL LENS BEHIND WHICH UNIT IS TO BE USED.

ORDERING REFERENCE
Specify Plate Number L106, Reference Number and Description

Ref. No.	Description	Piece No.
1	Type 1524 Semaphore Lamp Adapter (Specify focal length of optical lens behind which unit is to be used and specify voltage and wattage of lamp bulb)	1524

WESTERN RAILROAD SUPPLY COMPANY

Type 1525 Crossing Watchman's Hand Lantern

TWO-WAY INDICATION

Type 1525 Crossing Watchman's Hand Lantern is designed so that a crossing watchman can present a red lantern indication in two directions. The red cover glasses are 4½" in diameter, and a very strong light is furnished.

The lamp uses a standard 6 volt hand lantern battery and Mazda No. 502 bulbs.

ORDERING REFERENCE
Specify Plate Number L135, Reference Number and Description

Ref. No.	Description	Piece No.
1	Type 1525 Crossing Watchman's Hand Lantern, complete with lamp bulbs, less battery	1525
2	Mazda Lamp Bulb for Type 1525 Lamp	M502

GEIS PRINTING CO., CHICAGO, 5M-41